

**Table 2.** Measured masses and assignments of tryptic peptides from VP3 protein.

<i>m/z</i> (obs'd)	Charge	M (obs'd)	M (calc)	Error (ppm)	Assignment
521.8243	2	1041.634	1041.634	0	439-447
540.9454	3	1619.814	1619.810	3	44-56
593.6351	3	1777.883	1777.871	7	258-273
604.9608	3	1811.861	1811.859	1	491-504
617.8068	2	1233.599	1233.591	6	355-364
625.8014	2	1249.588	1249.590	-1	246-257
641.5767	4	2562.278	2562.248	11	343-364
645.3524	2	1288.690	1288.682	7	408-418
647.2969	4	2585.159	2585.153	2	289-311
652.6666	3	1954.978	1954.968	5	326-342
670.3733	2	1338.732	1338.734	-1	331-342
678.6766	3	2033.008	2032.999	4	348-364
679.8733	2	1357.732	1357.726	5	97-107
680.6585	3	2038.954	2038.927	13	312-330
712.3603	2	1422.706	1422.693	9	312-325
715.6965	3	2144.068	2144.063	2	419-438
753.3803	4	3009.492	3009.450	14	246-273
759.3988	1	758.3915	758.3824	1	306-311
777.4555	1	776.4483	776.4392	1	37-43
801.9192	2	1601.824	1601.805	1	448-463
810.9228	2	1619.831	1619.810	1	44-56
828.8973	2	1655.780	1655.758	1	492-504
841.7695	3	2522.287	2522.240	18	505-527
861.5302	1	860.5229	860.5120	1	113-119
889.9549	2	1777.895	1777.871	1	258-273
923.4107	2	1844.807	1844.781	1	289-305
951.5087	2	1901.003	1900.976	1	231-245
959.5042	2	1916.994	1916.971	1	231-245+O
972.5123	2	1943.010	1942.991	1	93-107
978.5068	2	1954.999	1954.968	2	326-342
1017.517	2	2033.019	2032.999	1	348-364
1025.519	2	2049.024	2048.994	1	348-364+O
1033.528	2	2065.041	2065.008	2	365-383
1050.207	3	3147.601	3147.540	2	464-490
1073.058	2	2144.102	2144.063	2	419-438+O
1081.056	2	2160.097	2160.057	2	419-438+O
1085.508	3	3253.502	3253.437	2	203-230
1094.532	3	3280.574	3280.588	3	355-383
1102.243	3	3303.708	3303.641	2	464-481
1126.241	3	3375.702	3375.645	2	312-342+O
1176.617	3	3526.830	3526.767	2	387-418

1181.939	3	3542.796	3542.767	0.8	387-418+O
1234.618	1	1233.611	1233.591	2	246-257
1262.154	2	2522.295	2522.240	2	505-527
1339.758	1	1338.750	1338.734	1	331-342
1358.765	1	1357.758	1357.726	2	97-107

**Table 3.** Measured masses and assignments of peptides from a Glu-C digest of VP3 protein. \*C-terminal peptide of VP3.

<b><i>m/z</i> (obs'd)</b>	<b>Charge</b>	<b>M (obs'd)</b>	<b>M (calc)</b>	<b>Error (ppm)</b>	<b>Assignment</b>
726.0334	3	2175.078	2175.073	0.3	354-372+O
731.3601	3	2191.058	2191.068	4	354-372+O
890.1399	3	2667.398	2667.391	0.3	330-353
1088.550	2	2175.086	2175.073	0.6	354-372
1182.890	3	3545.648	3545.627	0.6	298-329
1465.744	3	4394.210	4394.193	0.4	496-533*

**Table 4.** Measured masses and assignments of peptides from an Asp-N digest of VP3 protein.

<i>m/z</i> (obs'd)	Charge	M (obs'd)	M (calc)	Error (ppm)	Assignment
525.5794	3	1573.716	1573.716	0	215-228
579.9840	3	1736.930	1736.925	3	408-422
671.8465	4	2683.357	2683.349	3	327-350
700.6062	4	2798.396	2798.376	7	326-350
712.3602	2	1422.706	1422.693	9	312-325
720.3633	2	1438.712	1438.687	2	312-325+O
722.7661	5	3608.794	3608.797	2	35-66
772.3831	2	1542.752	1542.750	1	392-405
776.3668	3	2326.079	2326.036	2	292-311
787.8791	2	1573.744	1573.716	2	215-228
869.4880	2	1736.961	1736.925	2	408-422
877.3810	2	1752.747	1752.7208	2	67-80
902.4563	4	3605.796	3605.731	2	359-391
903.2048	4	3608.790	3608.797	2	35-66
933.8048	3	2798.393	2798.376	6	326-350
948.5305	1	947.5232	947.4997	2	351-358
971.5481	1	970.5408	970.5270	1	229-236
1114.560	3	3340.658	3340.596	2	237-266
1202.953	3	3605.837	3605.731	3	359-391

**Table 5.** Measured masses and assignments of tryptic peptides from VP1 protein.

<i>m/z</i> (obs'd)	Charge	M (obs'd)	M (calc)	Error (ppm)	Assignment
521.8238	2	1041.633	1041.634	-1	641-649
537.0238	4	2144.066	2144.063	2	621-640
540.9538	3	1619.839	1619.810	2	246-258
593.6422	3	1777.905	1777.871	2	460-475
617.8147	2	1233.615	1233.591	2	557-566
622.6506	3	1864.930	1846.892	2	144-161
625.3182	2	1248.622	1248.599	2	82-92
626.0351	3	1875.084	1875.071	6	125-142
645.3608	2	1288.707	1288.682	2	610-620
652.6692	3	1954.986	1954.968	9	528-544
655.9327	5	3274.627	3274.553	2	52-81
659.8418	2	1317.669	1317.657	10	10-20
665.3868	3	1993.139	1992.986	8	143-161
668.7276	3	2003.161	2003.167	-3	125-143
670.3794	2	1338.744	1338.734	1	533-544
679.8719	2	1357.729	1357.726	4	315-321
690.3176	2	1378.621	1378.590	2	93-103
692.4082	2	1382.802	1382.803	-1	25-37
693.3431	4	2769.343	2769.325	1	52-77
697.3695	2	1392.725	1392.670	2	104-116
711.4315	2	1420.848	1420.818	2	125-137
715.7110	3	2144.111	2144.063	2	621-640
721.0418	3	2160.104	2160.057	2	621-640+O
724.3345	3	2169.982	2169.993	-5	62-81
801.9274	2	1601.840	1601.805	2	650-665
810.9304	2	1619.846	1619.769	5	93-105
814.3853	4	3253.512	3253.438	2	405-432
819.6638	4	3274.626	3274.553	2	52-81
824.8870	4	3295.519	3295.583	-2	557-585
826.6648	4	3302.630	3302.641	-0.3	666-693
828.8922	2	1655.770	1655.758	1	694-706
840.9394	4	3359.729	3359.650	2	514-544
841.7697	3	2522.287	2522.240	19	707-729
842.0933	3	2523.258	2523.231	11	448-471
844.9374	4	3375.721	3375.646	2	514-544+O
846.5116	1	845.504	845.501	4	44-51
851.4420	4	3401.739	3401.581	5	62-92
861.5160	1	860.509	860.512	-4	315-321
889.9647	2	1777.915	1777.871	3	460-475
923.4194	2	1844.824	1844.781	3	491-507
951.5011	2	1900.988	1900.976	1	433-447

959.4977	2	1916.981	1916.981	0	433-447+O
972.5057	2	1942.997	1942.997	0	295-309
1033.517	2	2065.020	2065.008	0.6	567-585
1050.193	3	3147.558	3147.540	0.6	666-692
1085.493	3	3253.458	3253.438	0.6	405-432
1094.542	3	3280.607	3280.607	0	557-585
1099.874	3	3296.600	3296.583	0.5	557-585+O
1176.604	3	3526.789	3526.767	0.6	589-620
1181.940	3	3542.798	3542.762	1	589-620+O

Table 6. Measured masses and assignments of peptides from a Glu-C digest of VP1 protein. \*C-terminal peptide of VP1.

<i>m/z</i> (obs'd)	Charge	M (obs'd)	M (calc)	Error (ppm)	Assignment
660.3329	1	659.3257	659.3126	2	68-78
667.8663	4	2667.436	2667.391	2	532-555
710.3400	5	3546.664	3546.627	1	500-531
713.5400	5	3562.664	3562.622	1	500-531+O
726.0454	3	2175.114	2175.073	2	556-574
731.3770	3	2191.109	2191.068	2	556-574+O
817.4869	1	816.4196	816.4181	2	549-555
835.6451	4	3338.551	3338.486	2	75-102
879.8644	5	4394.286	4394.286	2	698-735*
890.1570	3	2667.449	2667.391	2	532-555
891.6804	4	3562.692	3562.622	2	500-531+O
1088.574	2	2175.133	2175.073	3	556-574

Table 7. Measured masses and assignments of peptides from an Asp-N digest of VP1 protein.

<i>m/z</i> (obs'd)	Charge	M (obs'd)	M (calc)	Error (ppm)	Assignment
525.5774	3	1573.710	1573.716	4	417-430
579.9849	3	1736.933	1736.925	0.5	610-624
582.5182	4	2326.044	2326.044	0	494-513
612.8167	4	2447.238	2447.227	0.5	154-177
617.7981	2	1233.582	1233.578	0.3	87-96
700.6040	4	2798.387	2798.376	0.4	528-552
712.3570	2	1422.699	1422.693	0.5	514-527
720.3546	2	1438.695	1438.687	0.5	514-527+O
727.7191	3	2180.135	2180.127	0.4	40-59
772.3858	2	1542.757	1542.750	0.5	594-607
776.3635	3	2326.069	2326.044	11	494-513
780.3832	2	1558.752	1558.745	0.4	594-607+O
787.8687	2	1573.723	1573.716	0.4	417-430
816.7501	3	2447.228	2447.227	0.1	154-177
844.9689	6	5063.769	5063.767	0.1	107-153
869.4703	2	1736.926	1736.925	0.1	610-624
877.3684	2	1752.722	1752.721	0.1	269-282
895.4578	3	2683.352	2683.349	0.1	529-552
898.0952	3	2691.264	2691.263	0.02	184-212+O
902.4449	4	3605.750	3605.731	6	561-593
933.8001	3	2798.378	2798.376	0.1	528-552
941.9713	2	1881.928	1881.932	-0.2	327-344
948.5051	1	947.4979	947.4997	-0.2	553-560
971.5323	1	970.5250	970.5270	-0.2	431-438
1091.070	2	2180.125	2180.127	-0.08	40-59
1114.536	3	3340.586	3340.596	-0.3	439-468
1346.634	2	2691.254	2691.263	-0.3	184-212



**Table 8.** Putative glycopeptides from VP3 predicted by GlycoMod. Hex=hexose, HexNAc=N-acetylhexosamine, Deoxyhex=deoxyhexose, NeuGc= N-glycolylneuraminic acid

A. Tryptic digest.

<b>m/z (obs'd)</b>	<b>Charge</b>	<b>M (obs'd)</b>	<b>M (calc)</b>	<b>Error (ppm)</b>	<b>Peptide</b>	<b>Glycoform</b>
552.5798	3	1654.718	1654.704	8	487-491	Hex <sub>2</sub> HexNAcDeoxyhex
685.9802	3	2054.919	2054.908	5	312-325	Hex <sub>2</sub> Deoxyhex <sub>2</sub>
706.9896	3	2117.947	2117.959	-5	343-354	HexHexNAc <sub>3</sub>
770.6860	3	2309.036	2309.048	-5	44-56	Hex <sub>3</sub> HexNAc
859.4062	3	2575.197	2575.178	7	365-383	HexNAcNeuGc

B. Asp-N digest.

<b>m/z (obs'd)</b>	<b>Charge</b>	<b>M (obs'd)</b>	<b>M (calc)</b>	<b>Error (ppm)</b>	<b>Peptide</b>	<b>Glycoform</b>
724.32869	4	2893.286	2893.280	2	392-407	Hex <sub>2</sub> HexNAc <sub>3</sub> Deoxyhex
			2893.280	2	392-407 +O	HexHexNAc <sub>3</sub> Deoxyhex <sub>2</sub>
733.3585	5	3661.756	3661.725	8	509-533	Hex <sub>3</sub> Deoxyhex <sub>2</sub>
785.0369	3	2352.089	2352.096	-3	125-142	Hex <sub>2</sub> Deoxyhex
790.3656	3	2368.075	2368.090	-6	125-142	Hex <sub>3</sub>
849.3896	4	3393.529	3393.518	3	215-236	Hex <sub>4</sub> HexNAc
			3393.527	1	270-291	HexNAcNeuGc <sub>2</sub>
868.8996	2	1735.785	1735.769	9	215-228	Hex
915.6795	4	3658.689	3658.703	-3	326-350	HexHexNAc <sub>2</sub> Deoxyhex <sub>2</sub>
916.4439	4	3661.746	3661.725	6	509-533	Hex <sub>3</sub> Deoxyhex <sub>2</sub>